

## Declaration and Power of Attorney for Patent Application English Language Declaration

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

### PLATING BATH AND METHOD FOR DEPOSITING A METAL LAYER ON A SUBSTRATE

the specification of which

(check one)

☐ is attached hereto.  
☒ was filed on October 2, 2001 as United States Application No. or PCT  
 Application No. 09/970,224  
 and was amended on \_\_\_\_\_  
 (if applicable)

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, Section 119(a)-(d) or Section 365(b) of any foreign application(s) for patent or inventor's certificate, or Section 365(a) of any PCT International application which designated at least one country other than the United States, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate or PCT International application having a filing date before that of the application on which priority is claimed.

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Peter J. Manus	Reg. No. 26,766	Lisa Swiszc Hazzard	Reg. No. 44,368
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Cara Z. Lowen	Reg. No. 38,227	Kathleen Carr	Reg. No. 41,658
William J. Daley, Jr.	Reg. No. 35,487	Stewart L. Gitler	Reg. No. 31,256
Steven M. Jensen	Reg. No. 42,693	Kathryn A. Piffat	Reg. No. 34,901
John B. Alexander	Reg. No. 48,399		

S. Matthew Cairns	Reg. No. 42,378
John J. Piskorski	Reg. No. 35,647
Darryl P. Frickey	Reg. No. 34,603

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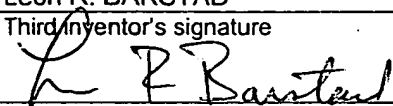
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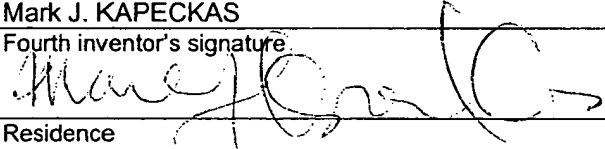
*(name and telephone number)*

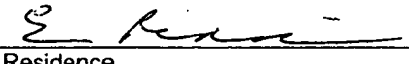
John J. Piskorski  
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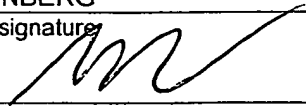
Full name of sole or first inventor	
David R. GABE	
Sole or first inventor's signature	Date:
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Full name of fourth inventor	
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Fourth inventor's signature 	Date: 10-1-01
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Fifth inventor's signature 	Date: 11/1/01
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U.S.A.	
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Full name of sixth inventor	
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Sixth inventor's signature 	Date: 11/1/01
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Citizenship	
U.S.A.	
Post Office Address	
Same As Above	

Full name of seventh inventor	
Thomas BUCKLEY	
Seventh inventor's signature	Date:
Residence	
736 Washington Street, Dedham, Massachusetts 02026, U.S.A.	
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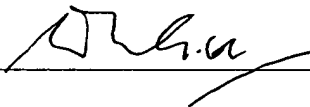
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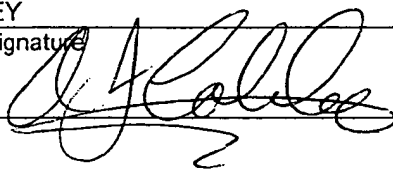
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Sole or first inventor's signature	Date:
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Leon R. BARSTAD	
Third inventor's signature	Date:
Residence	
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Citizenship	
United States of America	
Post Office Address	
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Full name of fourth inventor	
Mark J. KAPECKAS	
Fourth inventor's signature	Date:
Residence	
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Fifth inventor's signature	Date:
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Citizenship	
U.S.A.	
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Wade SONNENBERG	
Sixth inventor's signature	Date:
Residence	
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Facsimile: (508) 229-0254

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David R. GABE	
Sole or first inventor's signature	Date:
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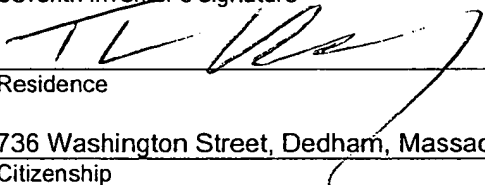
Full name of second inventor	
Andrew J. COBLEY	
Second inventor's signature	Date:
Residence	
7 Henderson Close, Allesley Village, Coventry CV5 9EY, Great Britain	
Citizenship	
United Kingdom	
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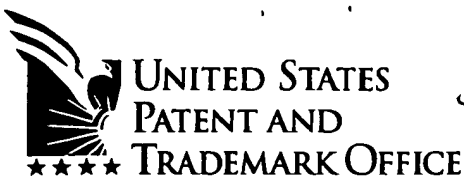
Full name of third inventor	
Leon R. BARSTAD	
Third inventor's signature	Date:
Residence	
8 Regan Circle, Raynham, Massachusetts 02767, U.S.A.	
Citizenship	
United States of America	
Post Office Address	
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Full name of fourth inventor	
Mark J. KAPECKAS	
Fourth inventor's signature	Date:
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Citizenship	
U.S.A.	
Post Office Address	
Same As Above	

Full name of fifth inventor	
Erik REDDINGTON	
Fifth inventor's signature	Date:
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24 Annetta Road, Ashland, Massachusetts 01721, U.S.A.	
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Full name of sixth inventor	
Wade SONNENBERG	
Sixth inventor's signature	Date:
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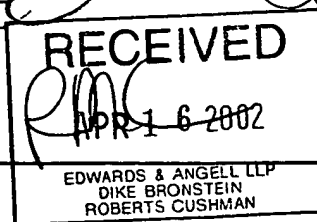
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Seventh inventor's signature 	Date: 11-3-01
Residence	
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Citizenship	
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Post Office Address	
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REC KIP/DEE

50798

(0329)



APRIL 09, 2002

PTAS

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DIKE, BRONSTEIN, ROBERTS & CUSHMAN LLP  
BOSTON, MA 02209

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Washington, DC 20231  
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UNITED STATES PATENT AND TRADEMARK OFFICE  
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RECORDATION DATE: 02/04/2002

REEL/FRAME: 012566/0361  
NUMBER OF PAGES: 9

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

GABE, DAVID R.

DOC DATE: 11/03/2001

ASSIGNOR:

COBLEY, ANDREW J.

DOC DATE: 11/03/2001

ASSIGNOR:

BARSTAD, LEON R.

DOC DATE: 11/03/2001

ASSIGNOR:

KAPECKAS, MARK J.

DOC DATE: 11/03/2001

ASSIGNOR:

REDDINGTON, ERIK

DOC DATE: 11/03/2001

ASSIGNOR:

SONNENBERG, WADE

DOC DATE: 11/03/2001

ASSIGNOR:

BUCKLEY, THOMAS

DOC DATE: 11/03/2001



012566/0361 PAGE 2

ASSIGNEE:

SHIPLEY COMPANY, L.L.C.  
455 FOREST STREET  
MARLBOROUGH, MASSACHUSETTS 01752

SERIAL NUMBER: 09970224  
PATENT NUMBER:

FILING DATE: 10/02/2001  
ISSUE DATE:

PEARLENE FOSTER, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

02-12-2002

ocket No.: 50798

U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office



102017088

Tab settings → → →



To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

David R. GABE  
Andrew J. COBLEY  
Leon R. BARSTAD  
Mark J. KAPECKAS  
Erik REDDINGTON

Wade SONNENBERG  
Thomas BUCKLEY

2-4-02

Additional names(s) of conveying party(ies)

☐ Yes ☒ No

2. Name and address of receiving party(ies):

Name: Shipley Company, L.L.C.

Address: 455 Forest Street

City: Marlborough State/Prov.: MA

Country: U.S.A. ZIP: 01752

Additional name(s) & address(es)

☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment

☐ Merger

☐ Security Agreement

☐ Change of Name

☐ Other

Execution Date: November 3, 2001 (Completed)

4. Application number(s) or patent numbers(s):

If this document is being filed together with a new application, the execution date of the application is:

Patent Application No.

Filing date

B. Patent No.(s)

09/970,224

October 2, 2001

2/27/2002 SDENB001 00000051 09970224

FE 00:581

40.00 DP

Additional numbers

☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Peter F. Corless

Registration No. 33,860

Address: EDWARDS & ANGELL, LLP

Dike, Bronstein, Roberts & Cushman, IP Group

P.O. Box 9169

City: Boston State/Prov.: MA

Country: USA ZIP: 02209

6. Total number of applications and patents involved:

1

7. Total fee (37 CFR 3.41):.....\$ 40.00

☒ Enclosed - Any excess or insufficiency should be credited or debited to deposit account

☐ Authorized to be charged to deposit account

8. Deposit account number:

04-1105

(Attach duplicate copy of this page if paying by deposit account)

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Peter F. Corless

Name of Person Signing

Signature

1/08/02

Date

7

Total number of pages including cover sheet, attachments, and

ASSIGNMENT

WHEREAS, I, David R. GABE of Loughborough, United Kingdom, (hereinafter referred to as "Assignor"), have invented certain new and useful improvements in "INSERT PLATING BATH AND METHOD FOR DEPOSITING A METAL LAYER ON A SUBSTRATE", for which an application for United States Letters Patent with the same title was filed with the U.S. Patent Office on October 2, 2001 and assigned U.S. Serial No. 09/970,224, and

WHEREAS, Shipley Company, L.L.C., located at 455 Forest Street, Marlborough, Massachusetts 01752, (hereinafter referred to as the "Assignee"), is desirous of acquiring the entire right, title and interest in and to the same invention, and in and to the said application, and any Letters Patent that may issue thereon;

NOW, THEREFORE, in consideration of the sum of One Hundred British Pounds (£100.00) to the undersigned in hand paid, the receipt of which is hereby acknowledged, and other good and valuable consideration, the undersigned has (have) sold, assigned and transferred, and by these presents to sell, assign and transfer unto said Assignee the full and exclusive right to the said invention in the United States of America and its territories, dependencies and possessions and the entire right, title and interest in and to any and all Letters Patent(s) which may be granted therefore in the United States of America and its territories, dependencies and possessions, and in and to any and all divisions, reissues, continuations and extensions thereof for the full term or terms for which the same may be granted.

The Assignor also has assigned and transferred, and does hereby assign and transfer to the Assignee, its successors and assigns, his entire right, title and interest in and to the invention disclosed in said application, in all countries of the world foreign to the United States, including the right to file applications and obtain patents for said invention in its own name in said countries and including all rights of priority in said countries under the terms of any applicable international convention; to have and to hold for the sole and exclusive use and benefit of the Assignee, its successors and assigns, to the full end of the term or terms for which any and all of said Letters Patent for said invention may issue, to the same extent as the Assignor would hold and enjoy if this Assignment had not been made.

The Assignor further agrees to execute any and all patent applications, assignments, affidavits, and any other papers in connection therewith necessary to perfect such patent rights, and also agree, at the request of the Assignee, to testify in any legal proceedings, sign all lawful papers, make all lawful oaths, and generally do everything possible to aid said Assignee, its successors and assigns, to obtain, maintain and enforce patent protection for said invention in all countries.

The Assignor also hereby grants the law firm of EDWARDS & ANGELL, LLP, Dike, Bronstein, Roberts & Cushman, IP Group, the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this documents.

IN WITNESS WHEREOF, the Assignor has caused this Assignment to be executed.

Dated this 8<sup>th</sup> day of November, 2001.

  
\_\_\_\_\_  
David R. GABE

ASSIGNMENT

WHEREAS, I, Andrew J. Copley of West Midlands, England, I, Leon R. Barstad of Raynham, Massachusetts, I, Mark J. Kapeckas of Marlborough, Massachusetts, I, Erik Reddington of Ashland, Massachusetts, I, Wade Sonnenberg of Edgartown, Massachusetts and I, Thomas Buckley of Dedham, Massachusetts, (hereinafter referred to as "Assignors"), have invented certain new and useful improvements in "PLATING BATH AND METHOD FOR DEPOSITING A METAL LAYER ON A SUBSTRATE", for which an application for United States Letters Patent with the same title was filed with the U.S. Patent and Trademark Office on October 2, 2001 and assigned U.S. Application Serial No. 09/970,224, and

WHEREAS, Shipley Company, L.L.C., located at 455 Forest Street, Marlborough, Massachusetts 01752, (hereinafter referred to as the "Assignee"), is desirous of acquiring the entire right, title and interest in and to the same invention, and in and to the said application, and any Letters Patent that may issue thereon;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN, be it known that for the above consideration, the Assignors have assigned and transferred, and do hereby assign and transfer to the Assignee, its successors and assigns, their entire right, title and interest for the United States in and to the said invention and in and to the said application and all patents which may be granted therefor, and all divisions, reissues, substitutions, continuations, in whole or in part, re-examinations, and extensions thereof, and all applications claiming priority therefrom; and the Assignors hereby authorize and request the Commissioner of Patents and Trademarks to issue all patents for said invention, or patents resulting therefrom, insofar as their interest is concerned, to the Assignee; to have and to hold for the sole and exclusive use and benefit of the Assignee, its successors and assigns, to the full end of the term or terms for which any and all of said Letters Patent for said invention may issue, to the same extent as the Assignors would hold and enjoy if this Assignment had not been made.

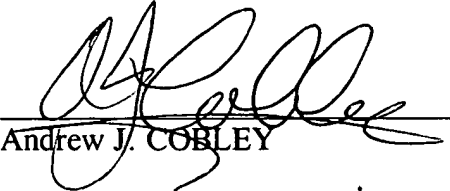
The Assignors also have assigned and transferred, and do hereby assign and transfer to the Assignee, its successors and assigns, their entire right, title and interest in and to the invention disclosed in said application, in all countries of the world foreign to the United States, including the right to file applications and obtain patents for said invention in its own name in said countries and including all rights of priority in said countries under the terms of any applicable international convention; to have and to hold for the sole and exclusive use and benefit of the Assignee, its successors and assigns, to the full end of the term or terms for which any and all of said Letters Patent for said invention may issue, to the same extent as the Assignors would hold and enjoy if this Assignment had not been made.

The Assignors further agree to execute any and all patent applications, assignments, affidavits, and any other papers in connection therewith necessary to perfect such patent rights, and also agree, at the request of the Assignee, to testify in any legal proceedings, sign all lawful papers, make all lawful oaths, and generally do everything possible to aid said Assignee, its successors and assigns, to obtain, maintain and enforce patent protection for said invention in all countries.

The Assignors also hereby grant the law firm of EDWARDS & ANGELL, LLP, Dike, Bronstein, Roberts & Cushman, IP Group, the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREOF, the Assignors have caused this Assignment to be executed.

Dated this 5th day of November, 2001.

  
\_\_\_\_\_  
Andrew J. COBLEY

Dated this \_\_\_\_ day of \_\_\_\_\_, \_\_\_\_.

\_\_\_\_\_  
Leon R. BARSTAD

Dated this \_\_\_\_ day of \_\_\_\_\_, \_\_\_\_.

\_\_\_\_\_  
Mark J. KAPECKAS

Dated this \_\_\_\_ day of \_\_\_\_\_, \_\_\_\_.

\_\_\_\_\_  
Erik REDDINGTON

Dated this \_\_\_\_ day of \_\_\_\_\_, \_\_\_\_.

\_\_\_\_\_  
Wade SONNENBERG

Dated this \_\_\_\_ day of \_\_\_\_\_, \_\_\_\_.

\_\_\_\_\_  
Thomas BUCKLEY

ASSIGNMENT

WHEREAS, I, Andrew J. Copley of West Midlands, England, I, Leon R. Barstad of Raynham, Massachusetts, I, Mark J. Kapeckas of Marlborough, Massachusetts, I, Erik Reddington of Ashland, Massachusetts, I, Wade Sonnenberg of Edgartown, Massachusetts and I, Thomas Buckley of Dedham, Massachusetts, (hereinafter referred to as "Assignors"), have invented certain new and useful improvements in "PLATING BATH AND METHOD FOR DEPOSITING A METAL LAYER ON A SUBSTRATE", for which an application for United States Letters Patent with the same title was filed with the U.S. Patent and Trademark Office on October 2, 2001 and assigned U.S. Application Serial No. 09/970,224, and

WHEREAS, Shipley Company, L.L.C., located at 455 Forest Street, Marlborough, Massachusetts 01752, (hereinafter referred to as the "Assignee"), is desirous of acquiring the entire right, title and interest in and to the same invention, and in and to the said application, and any Letters Patent that may issue thereon;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN, be it known that for the above consideration, the Assignors have assigned and transferred, and do hereby assign and transfer to the Assignee, its successors and assigns, their entire right, title and interest for the United States in and to the said invention and in and to the said application and all patents which may be granted therefor, and all divisions, reissues, substitutions, continuations, in whole or in part, re-examinations, and extensions thereof, and all applications claiming priority therefrom; and the Assignors hereby authorize and request the Commissioner of Patents and Trademarks to issue all patents for said invention, or patents resulting therefrom, insofar as their interest is concerned, to the Assignee; to have and to hold for the sole and exclusive use and benefit of the Assignee, its successors and assigns, to the full end of the term or terms for which any and all of said Letters Patent for said invention may issue, to the same extent as the Assignors would hold and enjoy if this Assignment had not been made.

The Assignors also have assigned and transferred, and do hereby assign and transfer to the Assignee, its successors and assigns, their entire right, title and interest in and to the invention disclosed in said application, in all countries of the world foreign to the United States, including the right to file applications and obtain patents for said invention in its own name in said countries and including all rights of priority in said countries under the terms of any applicable international convention; to have and to hold for the sole and exclusive use and benefit of the Assignee, its successors and assigns, to the full end of the term or terms for which any and all of said Letters Patent for said invention may issue, to the same extent as the Assignors would hold and enjoy if this Assignment had not been made.

The Assignors further agree to execute any and all patent applications, assignments, affidavits, and any other papers in connection therewith necessary to perfect such patent rights, and also agree, at the request of the Assignee, to testify in any legal proceedings, sign all lawful papers, make all lawful oaths, and generally do everything possible to aid said Assignee, its successors and assigns, to obtain, maintain and enforce patent protection for said invention in all countries.

The Assignors also hereby grant the law firm of EDWARDS & ANGELL, LLP, Dike, Bronstein, Roberts & Cushman, IP Group, the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREOF, the Assignors have caused this Assignment to be executed.

Dated this \_\_\_\_ day of \_\_\_\_\_, \_\_\_\_.

\_\_\_\_\_  
Andrew J. COBLEY

Dated this 1 day of November, 2001.

\_\_\_\_\_  
Leon R. BARSTAD

Dated this 1 day of NOVEMBER, 2001.

\_\_\_\_\_  
Mark J. KAPECKAS

Dated this 1 day of NOVEMBER, 2001.

\_\_\_\_\_  
Erik REDDINGTON

Dated this 1 day of November, 2001.

\_\_\_\_\_  
Wade SONNENBERG

Dated this \_\_\_\_ day of \_\_\_\_\_, \_\_\_\_.

\_\_\_\_\_  
Thomas BUCKLEY



ASSIGNMENT

WHEREAS, I, Andrew J. Copley of West Midlands, England, I, Leon R. Barstad of Raynham, Massachusetts, I, Mark J. Kapeckas of Marlborough, Massachusetts, I, Erik Reddington of Ashland, Massachusetts, I, Wade Sonnenberg of Edgartown, Massachusetts and I, Thomas Buckley of Dedham, Massachusetts, (hereinafter referred to as "Assignors"), have invented certain new and useful improvements in "PLATING BATH AND METHOD FOR DEPOSITING A METAL LAYER ON A SUBSTRATE", for which an application for United States Letters Patent with the same title was filed with the U.S. Patent and Trademark Office on October 2, 2001 and assigned U.S. Application Serial No. 09/970,224, and

WHEREAS, Shipley Company, L.L.C., located at 455 Forest Street, Marlborough, Massachusetts 01752, (hereinafter referred to as the "Assignee"), is desirous of acquiring the entire right, title and interest in and to the same invention, and in and to the said application, and any Letters Patent that may issue thereon;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN, be it known that for the above consideration, the Assignors have assigned and transferred, and do hereby assign and transfer to the Assignee, its successors and assigns, their entire right, title and interest for the United States in and to the said invention and in and to the said application and all patents which may be granted therefor, and all divisions, reissues, substitutions, continuations, in whole or in part, re-examinations, and extensions thereof, and all applications claiming priority therefrom; and the Assignors hereby authorize and request the Commissioner of Patents and Trademarks to issue all patents for said invention, or patents resulting therefrom, insofar as their interest is concerned, to the Assignee; to have and to hold for the sole and exclusive use and benefit of the Assignee, its successors and assigns, to the full end of the term or terms for which any and all of said Letters Patent for said invention may issue, to the same extent as the Assignors would hold and enjoy if this Assignment had not been made.

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IN WITNESS WHEREOF, the Assignors have caused this Assignment to be executed.

Dated this \_\_\_\_ day of \_\_\_\_\_, \_\_\_\_.

\_\_\_\_\_  
Andrew J. COBLEY

Dated this \_\_\_\_ day of \_\_\_\_\_, \_\_\_\_.

\_\_\_\_\_  
Leon R. BARSTAD

Dated this \_\_\_\_ day of \_\_\_\_\_, \_\_\_\_.

\_\_\_\_\_  
Mark J. KAPECKAS


Dated this \_\_\_\_ day of \_\_\_\_\_, \_\_\_\_.

\_\_\_\_\_  
Erik REDDINGTON

Dated this \_\_\_\_ day of \_\_\_\_\_, \_\_\_\_.

\_\_\_\_\_  
Wade SONNENBERG

Dated this 3 day of November, 2001.

  
\_\_\_\_\_  
Thomas BUCKLEY